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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/799,852	03/12/2004	Isamu Miyanishi	2271/71532	2074
7590		12/20/2007	EXAMINER ZAMAN, FAISAL M	
Ivan S. Kavrukov, Esq. Cooper & Dunham LLP 1185 Avenue of the Americas New York, NY 10036			ART UNIT 2111	PAPER NUMBER
			MAIL DATE 12/20/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)
	10/799,852	MIYANISHI ET AL.
	Examiner Faisal Zaman	Art Unit 2111

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 31 October 2007.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 19,20 and 22-38 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 19,20 and 22-38 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 12 March 2004 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. **Claims 22 and 31** are rejected under 35 U.S.C. 102(e) as being anticipated by Yoneyama et al. ("Yoneyama") (U.S. Patent No. 6,944,717).

Regarding Claims 22 and 31, Yoneyama discloses an optical disk drive apparatus, comprising:

An optical disk drive mechanism (Figures 1 and 2, item 18, Column 3, lines 54-57);

A register circuit (Figure 2, item 32, Column 4, lines 15-34) including a plurality of registers configured to store data to be transferred from the optical disk drive apparatus to a host computer (Figure 1, item 12);

A first memory configured to store first information indicating specific addresses of corresponding specified registers in the register circuit and representing an access executed by the host computer to the optical disk drive mechanism for a data transfer (Figure 2, item 39, Column 4 line 61 – Column 5 line 4 and Column 9, lines 10-20);

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A second memory configured to store second information, sent in association with the first information stored in the first memory and corresponding to said data to be transferred from the optical disk drive apparatus to said host computer, to be written into the specified registers at the specific addresses indicated by the first information stored in the first memory (Figure 2, item 22, Column 4, lines 19-22); and

A control circuit configured to perform an information writing operation for writing the first information into the first memory and the second information into the second memory in chronological order of accesses executed, in connection with said data to be transferred from the optical disk drive apparatus to said host computer (Figure 2, item 36, Column 4, lines 1-8 [i.e., writing the second information to the second memory] and Column 9, lines 10-20 [i.e., writing the first information to the first memory]).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. **Claims 22-24 and 30-33** are rejected under 35 U.S.C. 103(a) as being unpatentable over Kasebayashi et al. ("Kasebayashi") (U.S. Patent No. 5,758,191) and Tsuda et al. ("Tsuda") (U.S. Patent No. 6,799,242).

Regarding Claims 22 and 31, Kasebayashi discloses a disk drive apparatus (Kasebayashi, Figure 2, item 100, Column 4, lines 57-61) comprising:

A register circuit including a plurality of registers configured to store data to be transferred from the disk drive (Kasebayashi, Figure 3, item 13) to a host computer (Kasebayashi, Figure 3, item 11, Column 5, lines 46-49);

A first memory configured to store first information indicating specific addresses of corresponding specified registers in the register circuit and representing an access executed by the host computer to the disk drive mechanism for a data transfer (Kasebayashi, Figure 3, item 12, Column 5, lines 49-52);

A second memory configured to store second information, sent in association with the first information stored in the first memory and corresponding to said data to be transferred from the disk drive apparatus to said host computer, to be written into the specified registers at the specific addresses indicated by the first information stored in the first memory (Kasebayashi, Figure 3, item 14, Column 5, lines 57-61; ie. the read unit 14 actively reading data from magnetic disk 13 and separately writing the data to buffer 11 [using two distinct steps] would indicate that internal memory is necessarily required); and

A control circuit configured to perform an information writing operation for writing the first information into the first memory and the second information into the second memory in chronological order of accesses executed, in connection with said data to be transferred from the disk drive apparatus to said host computer (Kasebayashi, Figure 3, item 14, Column 5, lines 57-61; it is understood that the read unit 14 comprises of both a memory and a control circuit since both functions are performed as disclosed in Kasebayashi).

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Kasebayashi does not expressly teach wherein the disk drive apparatus is an optical disk drive apparatus, and

An optical disk drive mechanism.

In the same field of endeavor (e.g., reading data from a disc for use by a computer), Tsuda teaches wherein a disk drive apparatus is an optical disk drive apparatus, and

An optical disk drive mechanism (Tsuda, Figure 1, item 100, Column 1, lines 19-23).

Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have combined Tsuda's teachings of reading data from a disc for use by a computer with the teachings of Kasebayashi, for the purpose of providing a more reliable storage device that is able to store more data in the same amount of space.

Regarding Claim 23, 24, 32, and 33, Kasebayashi discloses wherein the control circuit performs the information writing and reading operation for writing and reading the first information into the first memory and the second information into the second memory in chronological order of accesses executed (Kasebayashi, Figure 3, item 17, Column 6, lines 5-10).

Kasebayashi does not expressly disclose wherein the control circuit performs the information writing operation for writing the first information into the first memory and the second information into the second memory in chronological order of accesses

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executed, when an operation mode of the communications interface apparatus is changed from a low power consumption mode to a regular operation mode.

In the same field of endeavor (e.g. reading data from a disc for use by a computer), Tsuda discloses wherein a control circuit performs an information writing operation to write a first information into a first memory (Tsuda, Column 8, lines 19-21; ie. TOC transfer command being transferred to memory control circuit 61) and a second information into a second memory in chronological order of accesses executed (Tsuda, Column 8, lines 21-25; ie. TOC data is transferred from SRAM 56 to buffer RAM 7), when an operation mode of the communications interface apparatus is changed from a low power consumption mode to a regular operation mode (Column 8, lines 11-12; ie. sleep mode to normal operational mode).

Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have combined Tsuda's teachings of reading data from a disc for use by a computer to the teachings of Kasebayashi, for the purpose of providing a disc apparatus having a reduced power consumption during a sleep mode for greater efficiency in a computing system (see Tsuda, Column 3, lines 28-30). Kasebayashi also provides motivation to combine by stating it is an object of the invention to increase efficiency in a disc apparatus that communicates with a host system (see Kasebayashi, Column 2, lines 18-23).

Regarding Claim 30, the examiner takes Official Notice that the integration of a register circuit, a first and second memory, and a control circuit into a single integrated

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chip in the type of system disclosed was well-known in the art at the time of the Applicant's invention and the use of it would not change the scope of the invention. Therefore, it would be obvious to one of ordinary skill in the art to integrate the register circuit, the first and second memories, and the control circuit into a single integrated chip.

5. **Claims 25, 26, 29, and 34-36** are rejected under 35 U.S.C. 103(a) as being unpatentable over Kasebayashi and Tsuda as applied to Claim 23 above (hereinafter "Kasebayashi-Tsuda"), and further in view of Yamada et al. ("Yamada") (U.S. Patent No. 6,470,439).

Kasebayashi-Tsuda discloses the invention substantially as claimed.

Regarding Claims 25 and 35, Kasebayashi-Tsuda discloses wherein the control circuit conducts the information writing operations with respect to the first and second memories (Kasebayashi, Figure 3, item 12 and item 17, respectively) in synchronism with each other and conducts the information reading operations with respect to the first and second memories in synchronism with each other (Kasebayashi, Column 6, lines 1-5).

In same field of endeavor (e.g. the use of a memory control circuit in controlling memory used in various electronic devices), Yamada teaches the following limitation, which Kasebayashi-Tsuda does not expressly disclose:

Wherein a memory comprises a first-in and first-out memory (Yamada, title, abstract) including a specific number of buffer areas into which data from an external device is written (Yamada, Column 3, lines 18-31).

Accordingly, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to have incorporated Yamada's teachings of the use of a memory control circuit in controlling memory used in various electronic devices with the teachings of Kasebayashi-Tsuda, for the purpose of providing a FIFO memory control circuit in which the amount of effective data in a memory can be correctly counted so that when the frequencies of a read clock and a write clock are different, data is prevented from being lost by being overwritten, and data is prevented from being read out twice (see Yamada, Column 6, lines 18-22). Kasebayashi-Tsuda provides motivation to combine by stating it is an object of the present invention to have an efficient system while reducing power consumption in a device during a sleep mode (see Tsuda, Column 3, lines 28-30).

Regarding Claims 29 and 34, Yamada discloses the following, which Kasebayashi-Tsuda does not expressly disclose:

Wherein the control circuit accesses the first and second memories in synchronism with a first clock signal for the information writing operation and a second clock signal for the information reading operation (Yamada, Column 3, lines 26-31), and wherein a first frequency of the first clock signal is greater than a second frequency of the second clock signal (Yamada, Column 4, lines 43-52).

The motivation that was utilized in the combination of Claim 25, super, applies equally as well to Claims 29 and 34.

Regarding Claims 26 and 36, Kasebayashi-Tsuda discloses wherein the control circuit performs the information writing and reading operation for writing and reading the first information into the first memory and the second information into the second memory in chronological order of accesses executed (Kasebayashi, Figure 3, item 17, Column 6, lines 5-10) when an operation mode of the communications interface apparatus is changed from a low power consumption mode to a regular operation mode (Tsuda, Column 8, lines 11-12; ie. sleep mode to normal operational mode).

Kasebayashi-Tsuda does not expressly disclose wherein the information writing and reading operation is performed without buffering the first and second information in the first-in and first-out memories in an event that the respective first-in and first-out memories of the first and second memories are in a memory empty state after the first and second information stored in the respective first-in and first-out memories of the first and second memories, respectively, are transferred to the register circuit when the operation mode of the communications interface apparatus is changed from a low power consumption mode to a regular operation mode.

In the same field of endeavor, Yamada teaches wherein data is not written (ie. is not buffered) into a FIFO memory in the event that a FULL signal is sent from the memory control circuit, indicating the FIFO memory is full (Yamada, Column 4, lines 12-22).

The motivation that was utilized in the combination of Claim 25, super, applies equally as well to Claims 26 and 36.

6. **Claims 27-28 and 37-38** are rejected under 35 U.S.C. 103(a) as being unpatentable over Kasebayashi, Tsuda, and Yamada as applied to Claim 25 above (hereinafter, "KTY"), and further in view of Chuang et al. ("Chuang") (U.S. Patent No. 6,502,159).

KTY discloses the communications interface apparatus according to Claim 26, as described above.

Regarding Claims 27 and 37, KTY does not expressly disclose wherein each of the first and second memories comprises a selection circuit configured to select one of (i) a first data path for the first and second information not via the first and second memories and (ii) a second data path for the first and second information via the respective first and second memories, on an exclusive basis according to a control signal from the control circuit and to output corresponding data to the register circuit through the selected one of the first and second data paths.

In the same field of endeavor (e.g. data transfers between a disk drive apparatus and a host computer), Chuang teaches wherein a circuit (Chuang, Figure 2, item 105, Column 4, lines 22-23) comprises a selection circuit (Chuang, Figure 3, item 120, Column 4, lines 36-50) configured to select one of (i) a first data path for information not via a memory (Chuang, Table 2, Column 4, lines 26-29) and (ii) a second data path for the information via a memory (Chuang, Table 1, Column 4, lines 23-25), on an exclusive

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basis according to a control signal from a control circuit (Chuang, Figure 2, item 12, Column 3, lines 56-60) and to output corresponding data to a circuit (Chuang, Figure 3, item 57, Column 3, lines 56-60) through the selected one of the first and second data paths.

Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have combined Chuang's teachings of data transfers between a disk drive apparatus and a host computer with the teachings of KTY, for the purpose of greatly reducing system memory usage and bus utilization (see Chuang, Column 3, lines 52-55) and to reduce unnecessary data flow in the system and unnecessary consumption of system resources (see Chuang, Column 3, lines 60-64). KTY also provides motivation to combine by stating it is an object of the invention to increase efficiency in a disc apparatus that communicates with a host system (see Kasebayashi, Column 2, lines 18-23).

Regarding Claims 28 and 38, KTY discloses wherein the control circuit comprises:

A data writing circuit block configured to write the first and second information into the first and second memories, respectively, in accordance with an access performed by the host computer (Kasebayashi, Figure 3, item 17, Column 6, lines 5-10);

A data reading circuit block configured to start reading the first and second information from the first and second memories, respectively, upon a time the write

control circuit block starts writing the first and second information into the first and second memories, respectively (Kasebayashi, Figure 3, item 17, Column 6, lines 5-10);

A status detecting circuit block configured to detect memory statuses of the first-in and first-out memories included in the respective first and second memories and to output a status signal representing the memory statuses detected (Yamada, Column 4, lines 12-22; see combination of Claim 6 above); and

A selection control circuit block configured to control accesses to the respective first and second memories in accordance with a status as to whether the operation mode of the communications interface apparatus is the low power consumption mode and the status signal output from the status detecting circuit block (Yamada, Column 4, lines 12-22 and Tsuda, Column 8, lines 11-12; see combination of Claim 6 above).

KTY does not expressly disclose wherein the selection control circuit block is configured to control the selection circuits included in the respective first and second memories.

In the same field of endeavor, Chuang teaches wherein a selection control circuit block (Chuang, Figure 2, item 105, Column 4, lines 22-23) is configured to control the selection circuit (Chuang, Figure 3, item 120, Column 4, lines 36-50) included in a circuit in accordance with a status from a control circuit (Chuang, Figure 2, item 12, Column 3, lines 56-60).

The motivation used in the combination of Claim 27, super, applies equally as well to Claims 28 and 38.

7. **Claims 19 and 20** are rejected under 35 U.S.C. 103(a) as being unpatentable over Kasebayashi, Tsuda, and Silvester (U.S. Patent No. 6,631,469).

Regarding Claim 19, Kasebayashi teaches a disk drive apparatus (Kasebayashi, Figure 2, item 100), comprising:

An interface circuit for interfacing communications, between a disk drive mechanism and a host computer (Kasebayashi, Figure 2, item 105, Column 4, lines 64-66), the interfacing circuit comprising:

An input terminal for receiving data sent from the host computer (Kasebayashi, Figure 2, see connection between items 200 and 105, Column 4, lines 64-66);

A data processor configured to perform a predetermined data processing operation to the data received through the input terminal (Kasebayashi, Figure 2, item 101, Column 4, lines 62-64); and

A buffering circuit block configured to buffer the data received through the input terminal of the disk drive apparatus from the host computer (Kasebayashi, Figure 3, Column 5 line 36 – Column 6 line 13).

Kasebayashi does not expressly teach wherein the disk drive apparatus is an optical disk drive apparatus;

An optical disk drive mechanism;

A clock generator configured to generate a clock signal with which the data processor performs the predetermined data processing operation; and

An operation mode changer configured to control the clock generator to reduce a frequency of the clock signal to a value smaller than a predetermined value to change

an operation mode from a regular operation mode to a low power consumption mode; and

Wherein the buffering circuit block includes:

A first data transfer path configured to transfer the data received through the input terminal to the data processor not via a memory, and

A second data transfer path configured to transfer the data received through the input terminal to the data processor via a memory; and

A path selection controller configured to control the buffering circuit block to select the second data transfer path on an exclusive basis when the operation mode is changed from the regular operation mode to the low power consumption mode.

In the same field of endeavor (e.g. reading data from a disc for use by a computer), Tsuda teaches an optical disk drive mechanism (Tsuda, Figure 1, Column 1, lines 19-23);

A clock generator configured to generate a clock signal with which the data processor performs the predetermined data processing operation (Tsuda, Figure 7, item 62, Column 8, lines 11-25); and

An operation mode changer configured to control the clock generator to reduce a frequency of the clock signal to a value smaller than a predetermined value to change an operation mode from a regular operation mode to a low power consumption mode (Tsuda, Column 7 line 56 – Column 8 line 10).

Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have combined Tsuda's teachings of reading data from

a disc for use by a computer to the teachings of Kasebayashi, for the purpose of providing a disc apparatus having a reduced power consumption during a sleep mode for greater efficiency in a computing system (see Tsuda, Column 3, lines 28-30).

Also in the same field of endeavor (e.g. transfer of data between an I/O device and a processor using a low power mode), Silvester teaches wherein a circuit block includes:

A first data transfer path configured to transfer the data received through an input terminal to a data processor not via a memory (Silvester, Figure 1, see data transfer path between items 100 and 120/125/130), and

A second data transfer path configured to transfer the data received through the input terminal to the data processor via a memory (Silvester, Figure 1, item 116, Column 4, lines 39-47; ie. low power non-volatile memory 116 is only used for data destined for processor 100 from devices 120/125/130 in a low power mode); and

A path selection controller configured to control the buffering circuit block to select the second data transfer path on an exclusive basis when the operation mode is changed from the regular operation mode to the low power consumption mode (Silvester, Figure 1, item 116, Column 4, lines 39-47).

Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have combined Silvester's teachings of transfer of data between an I/O device and a processor using a low power mode with the teachings of Kasebayashi, for the purpose of continually storing and updating a computer system, but with using very little battery power (see Silvester, Column 2, lines 9-15).

Regarding Claim 20, Silvester teaches wherein the path selection controller selects one of the first and second data transfer paths for a write operation (Silvester, Column 4, lines 42-43):

The motivation that was used in the combination of Claim 19, super, applies equally as well to Claim 20.

Response to Arguments

8. Applicant's arguments with respect to claims 22 and 31 and the limitation "optical disk drive" have been considered but are moot in view of the new ground(s) of rejection. Both Yoneyama et al. (U.S. Patent No. 6,944,717) and Tsuda et al. (U.S. Patent No. 6,799,242) teach the newly added limitations as discussed above.
9. Applicant's arguments filed 10/31/2007 with regards to Claim 19, and Claims 22 and 31 and the "second memory" limitation have been fully considered but they are not persuasive.

Regarding Claims 22 and 31, Applicant argues that "the 'read' operation to which Kasebayashi refers to reading the data into the memory of host computer system 10." The examiner disagrees. Contrary to Applicant's argument, the portion cited by the examiner (Column 5, lines 57-61) is referring to operations performed by read unit 14. Therefore, since read unit 14 is the component that is performing the "read" function, the read unit 14, not host computer system 10, is the one that comprises the memory in which the data from magnetic disk 13 is initially read into. Similarly, Applicant argues

that “[t]here are no arrows indicating flow of data from the magnetic disk 13 to the read section 14.” However, the cited passage clearly states that data is read from magnetic disk 13 into read unit 14 first, then is written to buffer read/write area 11.

Also regarding Claims 22 and 31, Applicant argues that “the address storage unit 12 of Kasebayashi does not store specific addresses corresponding to the data to be transferred to the host computer (that is, with each address indicating a buffer location into which a corresponding data is written)”. However, the claim language recites the “first memory [i.e., the address storage unit 12] stor[es] first information indicating a specific address of the register circuit ...”. The buffer area 11 was equated to the claimed “register circuit” in the rejection. Therefore, as described in Column 5, lines 49-52 and Column 6, lines 14-54 of Kasebayashi, the address storage unit 12 does in fact store “first information indicating a specific address of the register circuit (i.e., buffer area 11)”.

Regarding Claim 19, Applicant argues that “Tsuda ... does not teach or suggest an apparatus including an operation mode changer which controls the clock generator to reduce a frequency of the clock signal to a value smaller than a predetermined value to change an operation mode from a regular operation mode to a low power consumption mode”. However, as admitted by Applicant on Page 14 of the Remarks, Tsuda teaches that no clock signals are generated while in sleep mode. The clock generator producing no clock signals is equivalent to “reducing a frequency of the clock signal”, since the resulting clock frequency is less than the frequency of the clock in the normal operational mode (i.e., the clock frequency is reduced to zero).

Also regarding Claim 19, Applicant argues that "the clock signal generation and cessation ... cannot control the processing operation of the analog signal processor 4 and digital signal processor 5 in Fig. 1 of Tsuda." The examiner disagrees. Contrary to Applicant's argument, the purpose of the Tsuda invention is to enable the conventional optical disc player to be able to enter a sleep mode, see Column 3, lines 28-30. Further, in Column 12, lines 46-57, Tsuda expressly teaches that once a stop signal is received from the host and the clock generator stops providing the clock signal, all other circuits in the optical disc player also stop functioning, including analog processor 4 and digital signal processor 5 (which would indicate that they were receiving the clock signal prior to reception of the stop signal).

Therefore, the claim stands as previously rejected.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Faisal Zaman whose telephone number is 571-272-6495. The examiner can normally be reached on Monday thru Friday, 8 am - 5:30 pm, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on 571-272-3632. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

FMZ

Faisal Zaman
Examiner
Technology Center 2100

